

BookletChartTM

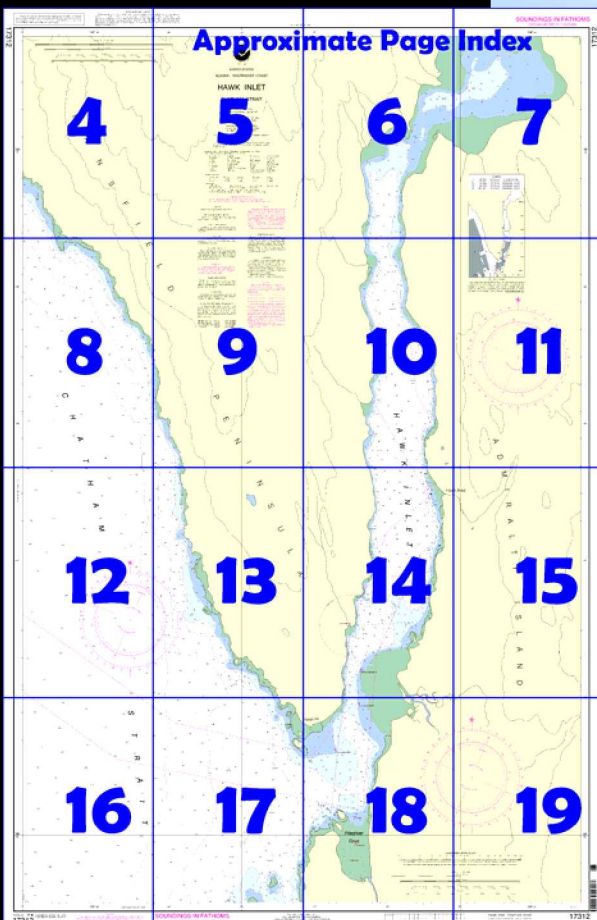
Hawl Inlet – Chatham Strait

(NOAA Chart 17312)



A reduced scale NOAA nautical chart for small boaters. When possible, use the full size NOAA chart for navigation.

- ✓ Complete, reduced scale nautical chart
- ✓ Print at home for free
- ✓ Convenient size
- ✓ Up to date with all Notices to Mariners
- ✓ United States Coast Pilot excerpts
- ✓ Compiled by NOAA, the nation's chartmaker.



Home Edition (not for sale)



What are Nautical Charts?

Nautical charts are a fundamental tool of marine navigation. They show water depths, obstructions, buoys, other aids to navigation, and much more. The information is shown in a way that promotes safe and efficient navigation. Chart carriage is mandatory on the commercial ships that carry America's commerce. They are also used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters.

What is a BookletChart™?

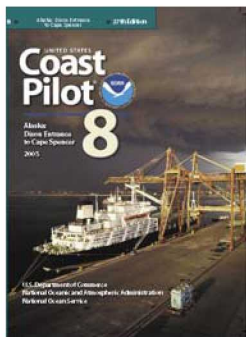
This BookletChart is made to help recreational boaters locate themselves on the water. It has been reduced in scale for convenience, but otherwise contains all the information of the full-scale nautical chart. The bar scales have also been reduced, and are accurate when used to measure distances in this BookletChart. See the Note at the bottom of page 5 for the reduction in scale applied to this chart.

Whenever possible, use the official, full scale NOAA nautical chart for navigation. Nautical chart sales agents are listed on the Internet at <http://www.NauticalCharts.NOAA.gov>.

This BookletChart does NOT fulfill chart carriage requirements for regulated commercial vessels under Titles 33 and 44 of the Code of Federal Regulations.

Notice to Mariners Correction Status

This BookletChart has been updated for chart corrections published in the U.S. Coast Guard Local Notice to Mariners, the National Geospatial Intelligence Agency Weekly Notice to Mariners, and, where applicable, the Canadian Coast Guard Notice to Mariners. Additional chart corrections have been made by NOAA in advance of their publication in a Notice to Mariners. The last Notices to Mariners applied to this chart are listed in the Note at the bottom of page 7. Coast Pilot excerpts are not being corrected.



[Coast Pilot 8, Chapter 10 excerpts]

(12) **Glacial ice** in varying quantities is prevalent in Icy Strait and Cross Sound throughout the year. The ice comes from Glacier Bay, and most of it is usually found at Glacier Bay entrance and from there to Inian Islands. It is quite thick in Cross Sound, and ice has been seen 10 to 15 miles seaward of Cape Spencer and as far E as Point Augusta. The pieces are large enough to make them dangerous to navigation. Ice at times piles up heavily along the shore from Point Adolphus

to Eagle Point.

(265) **Hawk Inlet** has its entrance on the E side of Chatham Strait 10 miles SE of Rocky Island Light 13 (58°10.6'N., 135° 03.1'W.). It has a N direction for a distance of 5 miles from its mouth. It then contracts and changes to a NE direction, terminating in a basin about 1 mile in diameter.

(266) The Captain of the Port, Southeast Alaska, has issued guidelines for the movement of all deep draft vessels in and out of Hawk Inlet.

Vessels of no more than 600 feet in length with a beam of no more than 100 feet may arrive/depart Hawk Inlet only 30 minutes before and after slack water during daylight hours, in conditions of good visibility and weather with an under-the-keel clearance of no less than 8 feet.

(267) A foul area, marked by kelp and bare at low water, extends about 0.35 mile S of **Hawk Point**. The entrance to the inlet is marked by lighted and unlighted buoys.

(268) **Piledriver Cove**, which dries, is on the S side of the inlet at the entrance. Two small islets are on the W side of the entrance to the cove; submerged pilings are in the entrance in about 58°05'11"N., 134°46'21"W. Another small cove, about 0.6 mile SW of Piledriver Cove, offers good anchorage for small craft in all but NW winds in 9 to 13 fathoms. A ledge extends 0.2 mile NW from the SW entrance point; another ledge, bare at half tide, is in the middle of the entrance. A deep channel is on each side of the ledge in the middle of the entrance, but the channel on the NE side is better. The anchorage is in the middle of the cove, about 300 yards SE of the ledge.

(269) Two streams enter Hawk Inlet on its E side about 0.8 mile above the entrance, and form an extensive flat extending two-thirds of the way across the inlet; the W edge is marked by a light. The channel between the light and the W shore is about 100 yards wide with 4 fathoms in the middle. The centerline of the channel is indicated by the range in Piledriver Cove. Once on the range, steer towards Hawk Inlet Entrance Light (58°06.5'N., 134°46.5'W.), giving the two lights marking the shoal on the E side of the channel a berth of 120 yards, then favor the W shore for about 0.7 mile.

(270) Ruins of a cannery are on the E side of Hawk Inlet about 1.4 miles N of the light.

(271) An abandoned fuel pier (58°07'35"N., 134°45'15"W.), with a 45-foot face, has 10 feet alongside. A small-craft and seaplane float with 4 feet alongside is about 300 yards S of the pier. During summer, water and the use of a radiotelephone are available from a caretaker in an emergency.

(272) Anchorage for shallow-draft vessels can be had in 4 to 6 fathoms in the basin at the head of the inlet. Extensive mud flats surround the anchorage. The channel leading to the basin has a least depth of 2½ fathoms. To make the channel, keep off the E shore by about 0.1 mile. The channel is winding with strong currents and should not be attempted without local knowledge.

Table of Selected Chart Notes

Corrected through NM Nov. 12/05
Corrected through LNM Nov. 01/05

HEIGHTS

Heights in feet above Mean High Water.

CAUTION

Limitations on the use of radio signals as aids to marine navigation can be found in the U.S. Coast Guard Light Lists and National Geospatial-Intelligence Agency Publication 117.

Radio direction-finder bearings to commercial broadcasting stations are subject to error and should be used with caution.

Station positions are shown thus:

○ (Accurate location) ◦ (Approximate location)

RADAR REFLECTORS

Radar reflectors have been placed on many floating aids to navigation. Individual radar reflector identification on these aids has been omitted from this chart.

SUPPLEMENTAL INFORMATION

Consult U.S. Coast Pilot 8 for important supplemental information.

Mercator Projection
Scale 1:10,000 at Lat 58° 07'

North American Datum of 1983
(World Geodetic System 1984)

SOUNDINGS IN FATHOMS
(FATHOMS AND FEET TO ELEVEN FATHOMS)
AT MEAN LOWER LOW WATER

AIDS TO NAVIGATION

Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.

HORIZONTAL DATUM

The horizontal reference datum of this chart is North American Datum of 1983 (NAD 83), which for charting purposes is considered equivalent to the World Geodetic System 1984 (WGS 84). Geographic positions referred to the North American Datum of 1927 must be corrected an average of 1.204' southward and 6.427' westward to agree with this chart.

NOAA WEATHER RADIO BROADCASTS

The NOAA Weather Radio stations listed below provide continuous weather broadcasts. The reception range is typically 20 to 40 nautical miles from the antenna site, but can be as much as 100 nautical miles for stations at high elevations.

Althorp Peak, AK	KZZ-86	162.425 MHz
Mt. Robert Barron	KZZ-87	162.450 MHz
Cape Fanshaw, AK	KZZ-88	162.425 MHz
Juneau, AK	WXJ-25	162.55 MHz

CAUTION

Temporary changes or defects in aids to navigation are not indicated on this chart. See Local Notice to Mariners.

CAUTION

SUBMARINE PIPELINES AND CABLES

Charted submarine pipelines and submarine cables and submarine pipeline and cable areas are shown as:



Additional uncharted submarine pipelines and submarine cables may exist within the area of this chart. Not all submarine pipelines and submarine cables are required to be buried, and those that were originally buried may have become exposed. Mariners should use extreme caution when operating vessels in depths of water comparable to their draft in areas where pipelines and cables may exist, and when anchoring, dragging, or trawling.

Covered wells may be marked by lighted or unlighted buoys.

WARNING

The prudent mariner will not rely solely on any single aid to navigation, particularly on floating aids. See U.S. Coast Guard Light List and U.S. Coast Pilot for details.

POLLUTION REPORTS

Report all spills of oil and hazardous substances to the National Response Center via 1-800-424-8802 (toll free), or to the nearest U.S. Coast Guard facility if telephone communication is impossible (33 CFR 153).

Additional information can be obtained at nauticalcharts.noaa.gov.

AUTHORITIES

Hydrography and topography by the National Ocean Service, Coast Survey, with additional data from the Corps of Engineers, and U.S. Coast Guard.

SOURCE DIAGRAM

The outlined areas represent the limits of the most recent hydrographic survey information that has been evaluated for charting. Surveys have been banded in this diagram by date and type of survey. Channels maintained by the U.S. Army Corps of Engineers are periodically resurveyed and are not shown on this diagram. Refer to Chapter 1, United States Coast Pilot.

COLREGS, 80.1705 (see note A)

International Regulations for Preventing Collisions at Sea, 1972.

The entire area of this chart falls seaward of the COLREGS Demarcation Line.

CAUTION

This chart has been corrected from the Notice to Mariners (NM) published weekly by the National Geospatial-Intelligence Agency and the Local Notice to Mariners (LNM) issued periodically by each U.S. Coast Guard district to the dates shown in the lower left hand corner.

This nautical chart has been designed to promote safe navigation. The National Ocean Service encourages users to submit corrections, additions, or comments for improving this chart to the Chief, Marine Chart Division (N/CS2), National Ocean Service, NOAA, Silver Spring, Maryland 20910-3282.

ABBREVIATIONS (For complete list of Symbols and Abbreviations, see Chart No. 1.)

Aids to Navigation (lights are white unless otherwise indicated):

AERO aeronautical	G green	Mo morse code	R TR radio tower
Al alternating	IO interrupted quick	N nun	Rt rotating
B black	Isa isophase	OBSC obscured	s seconds
Bn beacon	LT HO lighthouse	Oc occulting	SEC sector
C can	M nautical mile	Or orange	St M statute miles
DIA diaphone	m minutes	Q quick	VQ very quick
F fixed	MICRO TR microwave tower	R red	W white
Fl flashing	Mkr marker	Ra Ref radar reflector	WHIS whistle
		R Bn radiobeacon	Y yellow

Bottom characteristics:

Blds boulders	Co coral	gy gray	Oys oysters	so soft
bk broken	G gravel	h hard	Rk rock	Sh shells
Cy clay	Grs grass	M mud	S sand	sy sticky

Miscellaneous:

AUTH authorized	Obstr obstruction	PD position doubtful	Subm submerged
ED existence doubtful	PA position approximate	Rep reported	

⚓ Wreck, rock, obstruction, or shoal swept clear to the depth indicated.
(2) Rocks that cover and uncover, with heights in feet above datum of soundings.

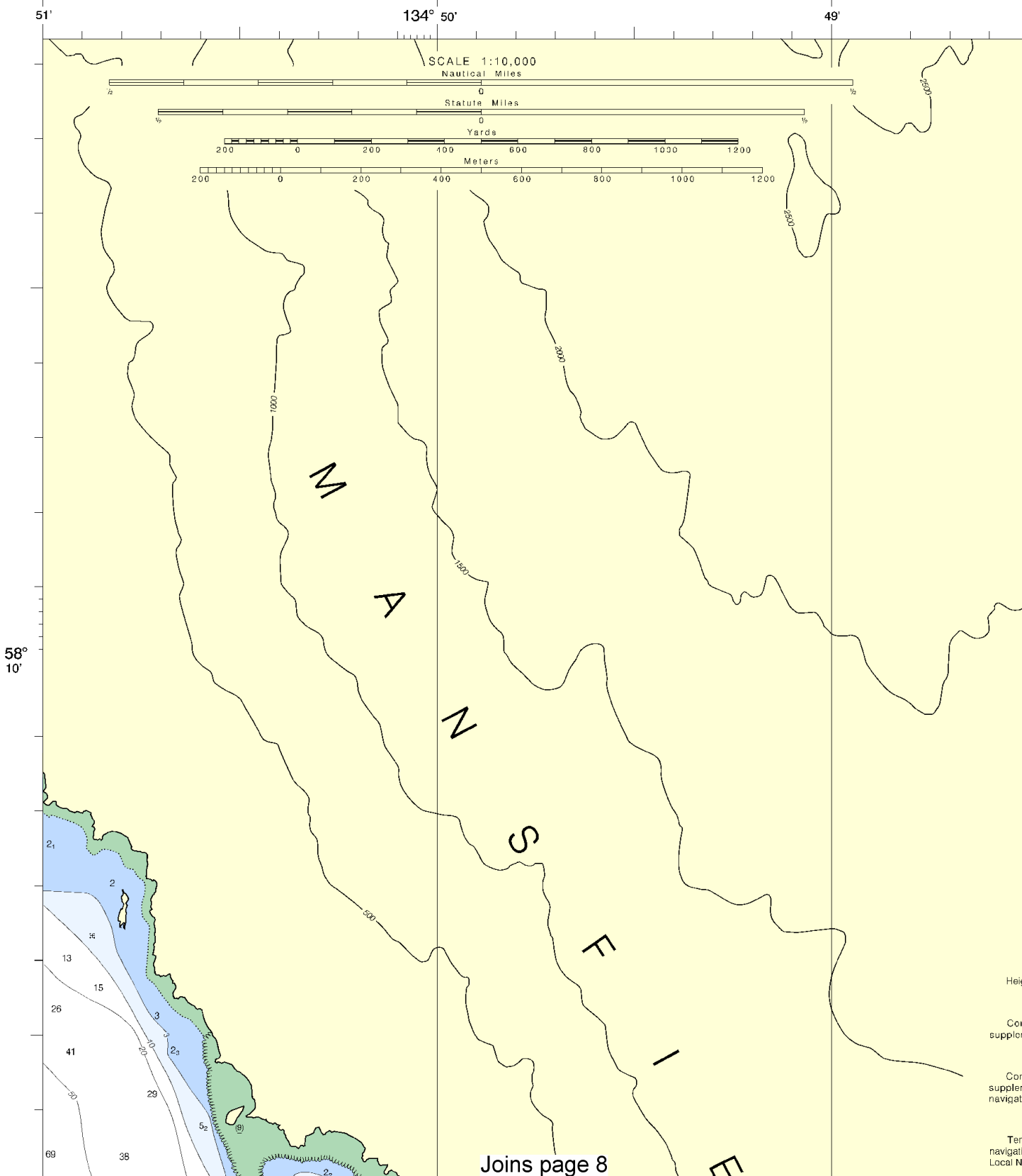
PRINT-ON-DEMAND CHARTS

NOAA and its partner, OceanGrafix, offer this chart updated weekly by NOAA for Notices to Mariners and critical corrections. Charts are printed when ordered using Print-on-Demand technology. New Editions are available 5-8 weeks before their release as traditional NOAA charts. Ask your chart agent about Print-on-Demand charts or contact NOAA at 1-800-584-4683, <http://NauticalCharts.gov>, help@NauticalCharts.gov, or OceanGrafix at 1-877-56CHART, <http://OceanGrafix.com>, or help@OceanGrafix.com.

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17312



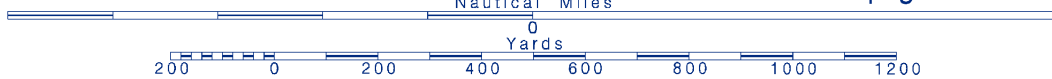
4



Printed at reduced scale.

SCALE 1:10,000

See Note on page 5.



48'

47'

46'



UNITED STATES

ALASKA - SOUTHEAST COAST

HAWK INLET

CHATHAM STRAIT

Mercator Projection
Scale 1:10,000 at Lat 58° 07'

North American Datum of 1983
(World Geodetic System 1984)

SOUNDINGS IN FATHOMS
(FATHOMS AND FEET TO ELEVEN FATHOMS)
AT MEAN LOWER LOW WATER

Additional information can be obtained at nauticalcharts.noaa.gov.

AUTHORITIES

Hydrography and topography by the National Ocean Service, Coast Survey, with additional data from the Corps of Engineers, and U.S. Coast Guard.

ABBREVIATIONS (For complete list of Symbols and Abbreviations, see Chart No. 1.)

Aids to Navigation (lights are white unless otherwise indicated):

AERO aeronautical	G green	Mo morse code	R TR radio tower
Al alternating	IQ interrupted quick	N nun	Rot rotating
B black	iso isophase	OBSC obscured	s seconds
Bn beacon	LT HO lighthouse	Oc occulting	SEC sector
C can	M nautical mile	Or orange	St M statute miles
DIA diaphone	m minutes	Q quick	VQ very quick
F fixed	MICRO TR microwave tower	R red	W white
Fl flashing	Mkr marker	Ra Ref radar reflector	WHIS whistle
		R Bn radiobeacon	Y yellow

Bottom characteristics:

Blds boulders	Co coral	gy gray	h hard	Oys oysters	so soft
bk broken	G gravel	h hard	Rk rock	Sh shells	Sh shells
Cy clay	Grs grass	M mud	S sand	sy sticky	sy sticky

Miscellaneous:

AUTH authorized	Obstr obstruction	PD position doubtful	Subm submerged
ED existence doubtful	PA position approximate	Rep reported	

(1) Wreck, rock, obstruction, or shoal swept clear to the depth indicated.

(2) Rocks that cover and uncover, with heights in feet above datum of soundings.

COLREGS, 80.1705 (see note A)

International Regulations for Preventing Collisions at Sea, 1972.

The entire area of this chart falls seaward of the COLREGS Demarcation Line.

HEIGHTS

heights in feet above Mean High Water.

NOTE A

Navigation regulations are published in Chapter 2, U.S. Coast Pilot 8. Additions or revisions to Chapter 2 are published in the Notice to Mariners. Information concerning the regulations may be obtained at the Office of the Commander, 17th Coast Guard District in Juneau, Alaska, or at the Office of the District Engineer, Corps of Engineers in Anchorage, Alaska.

Refer to charted regulation section numbers.

HORIZONTAL DATUM

The horizontal reference datum of this chart is North American Datum of 1983 (NAD 83), which for charting purposes is considered equivalent to the World Geodetic System 1984 (WGS 84). Geographic positions referred to the North

AIDS TO NAVIGATION

consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.

CAUTION

Temporary changes or defects in aids to navigation are not indicated on this chart. See Notice to Mariners.

Joins page 9

Joins page 6

This BookletChart was reduced to 75% of the original chart scale.

The new scale is 1:13333. Barscales have also been reduced and are accurate when used to measure distances in this BookletChart.



UNITED STATES
ALASKA - SOUTHEAST COAST

HAWK INLET

CHATHAM STRAIT

Mercator Projection
Scale 1:10,000 at Lat 58° 07'

North American Datum of 1983
(World Geodetic System 1984)

SOUNDINGS IN FATHOMS
(FATHOMS AND FEET TO ELEVEN FATHOMS)
AT MEAN LOWER LOW WATER

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SUPPLEMENTAL INFORMATION

Consult U.S. Coast Pilot 8 for important supplemental information.

AIDS TO NAVIGATION

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CAUTION

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HORIZONTAL DATUM

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Joins page 10

Printed at reduced scale.

SCALE 1:10,000

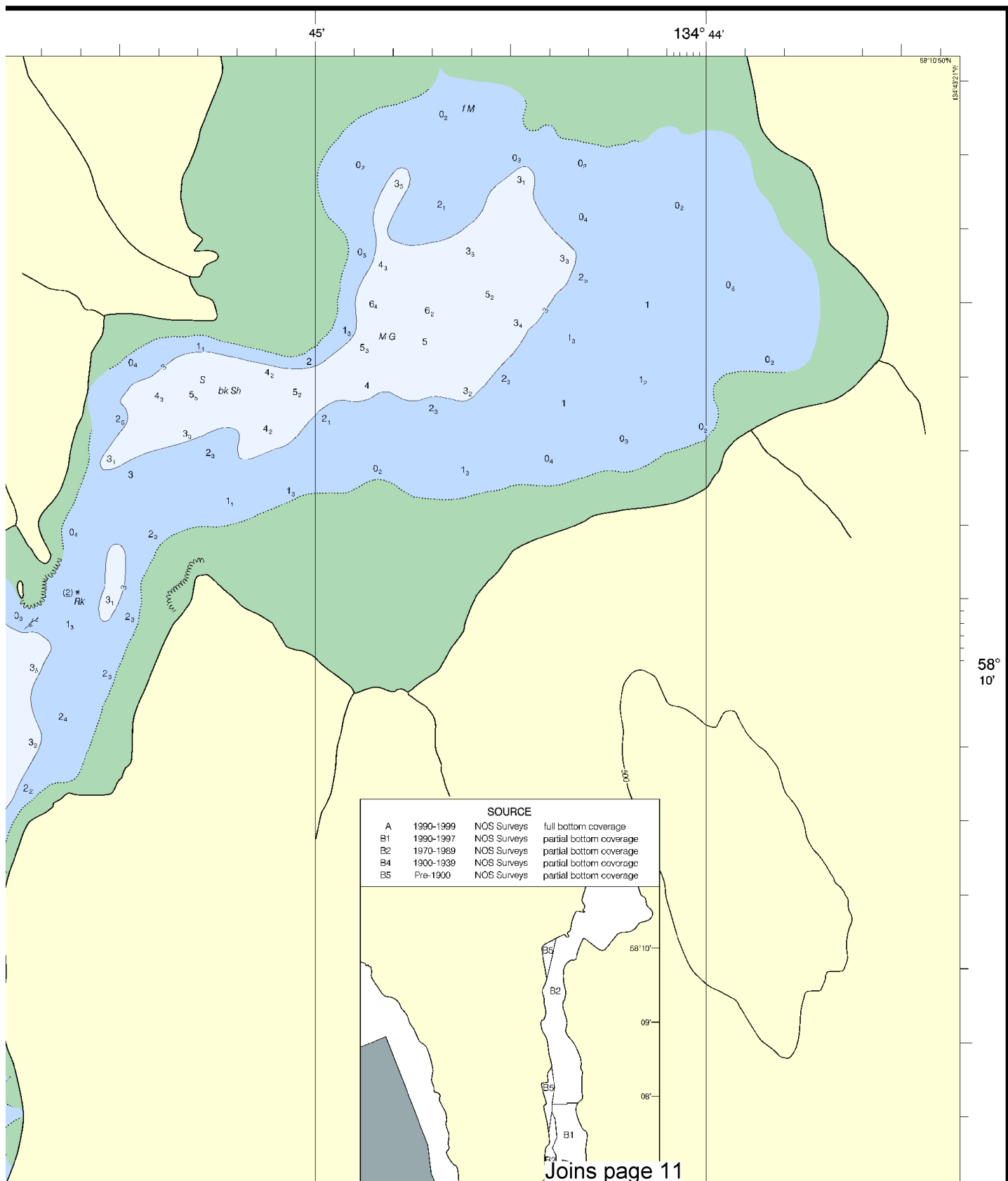
See Note on page 5.



6



17312



This BookletChart has been updated with: Coast Guard Local Notice To Mariners: 0710 2/16/2010,
NGA Weekly Notice to Mariners: 0910 2/27/2010,
Canadian Coast Guard Notice to Mariners: 0909 9/25/2009.

7

CHESAPEAKE BAY

Joins page 4

Joins page 12

Althorp
Mt. Robt
Cape Fa
Juneau,

8

North

Printed at reduced scale. — SCALE 1:10,000 — See Note on page 5.

Nautical Miles

0

Yards

200 0 200 400 600 800 1000 1200

CAUTION
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POLLUTION REPORTS
Report all spills of oil and hazardous substances to the National Response Center via 1-800-424-8802 (toll free), or to the nearest U.S. Coast Guard facility if telephone communication is possible (33 CFR 153).

WARNING
The prudent mariner will not rely solely on this aid to navigation, particularly on electronic aids. See U.S. Coast Guard Light List for details.

RADAR REFLECTORS
Radar reflectors have been placed on many aids to navigation. Individual radar return identification on these aids has been provided on this chart.

VEGETATION
Land is generally heavily wooded. The density decreases with the elevation, being the higher elevation bare.

NOAA WEATHER RADIO BROADCASTS
The NOAA Weather Radio stations listed provide continuous weather broadcasts. The reception range is typically 20 to 40 nautical miles from the antenna site, but can be as low as 100 nautical miles for stations at low elevations.

Station	Frequency
Point Peak, AK	KZZ-86 162.425 MHz
Robert Barron, AK	KZZ-87 162.450 MHz
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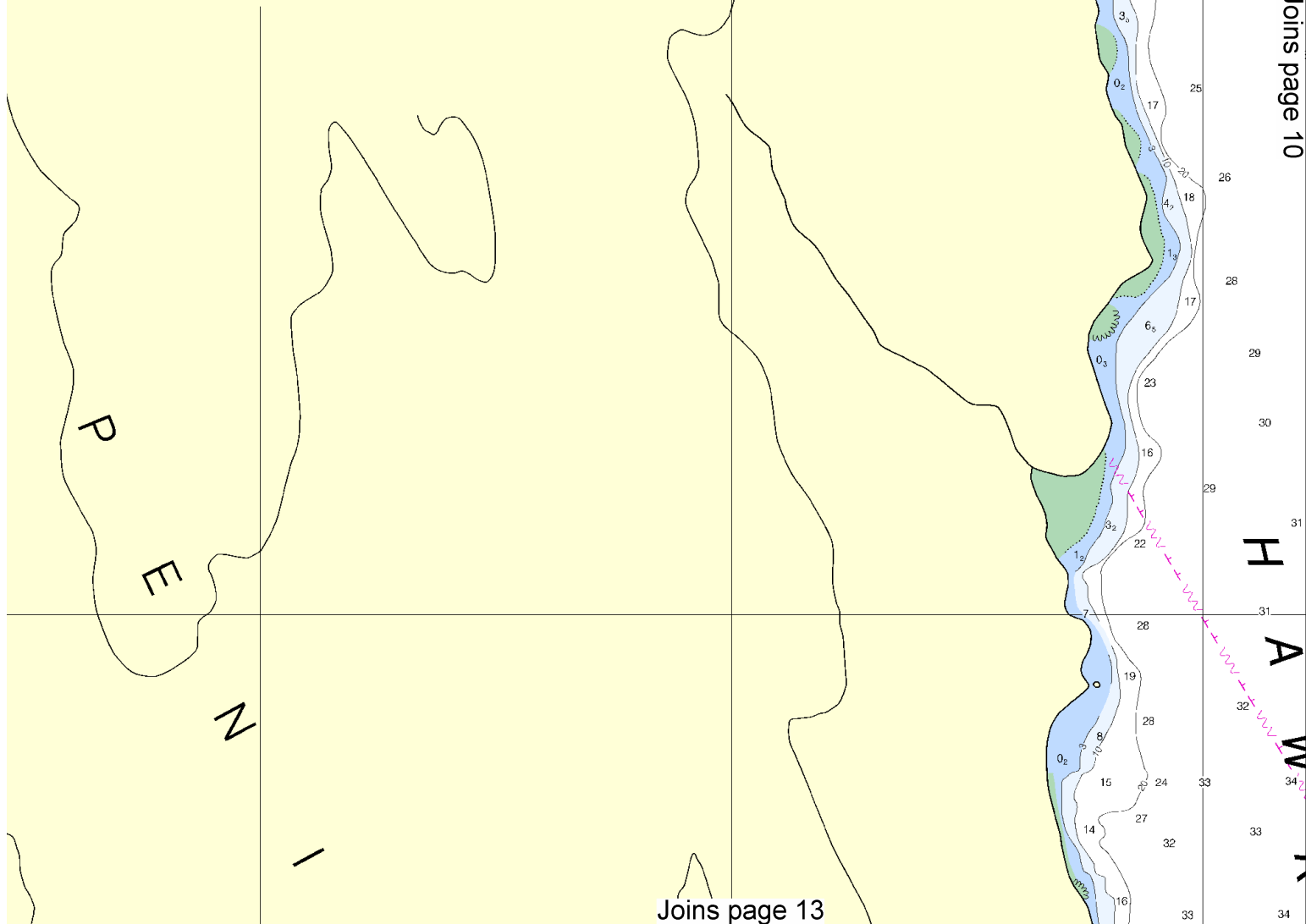
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CAUTION
Limitations on the use of radio signals as aids to marine navigation can be found in the U.S. Coast Guard Light Lists and National Geospatial-Intelligence Agency Publication 117. Radio direction-finder bearings to commercial broadcasting stations are subject to error and should be used with caution. Station positions are shown thus:
○ (Accurate location) ◌ (Approximate location)

CAUTION
SUBMARINE PIPELINES AND CABLES
Charted submarine pipelines and submarine cables and submarine pipeline and cable areas are shown as:

→ · · · · · ~~~~~
→ · · · · · ~~~~~
→ · · · · · ~~~~~

Additional uncharted submarine pipelines and submarine cables may exist within the area of this chart. Not all submarine pipelines and submarine cables are required to be buried, and those that were originally buried may have become exposed. Mariners should use extreme caution when operating vessels in depths of water comparable to their draft in areas where pipelines and cables may exist, and when anchoring, dragging, or trawling. Covered wells may be marked by lighted or unlighted buoys.



CAUTION
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POLLUTION REPORTS

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VEGETATION

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CAUTION

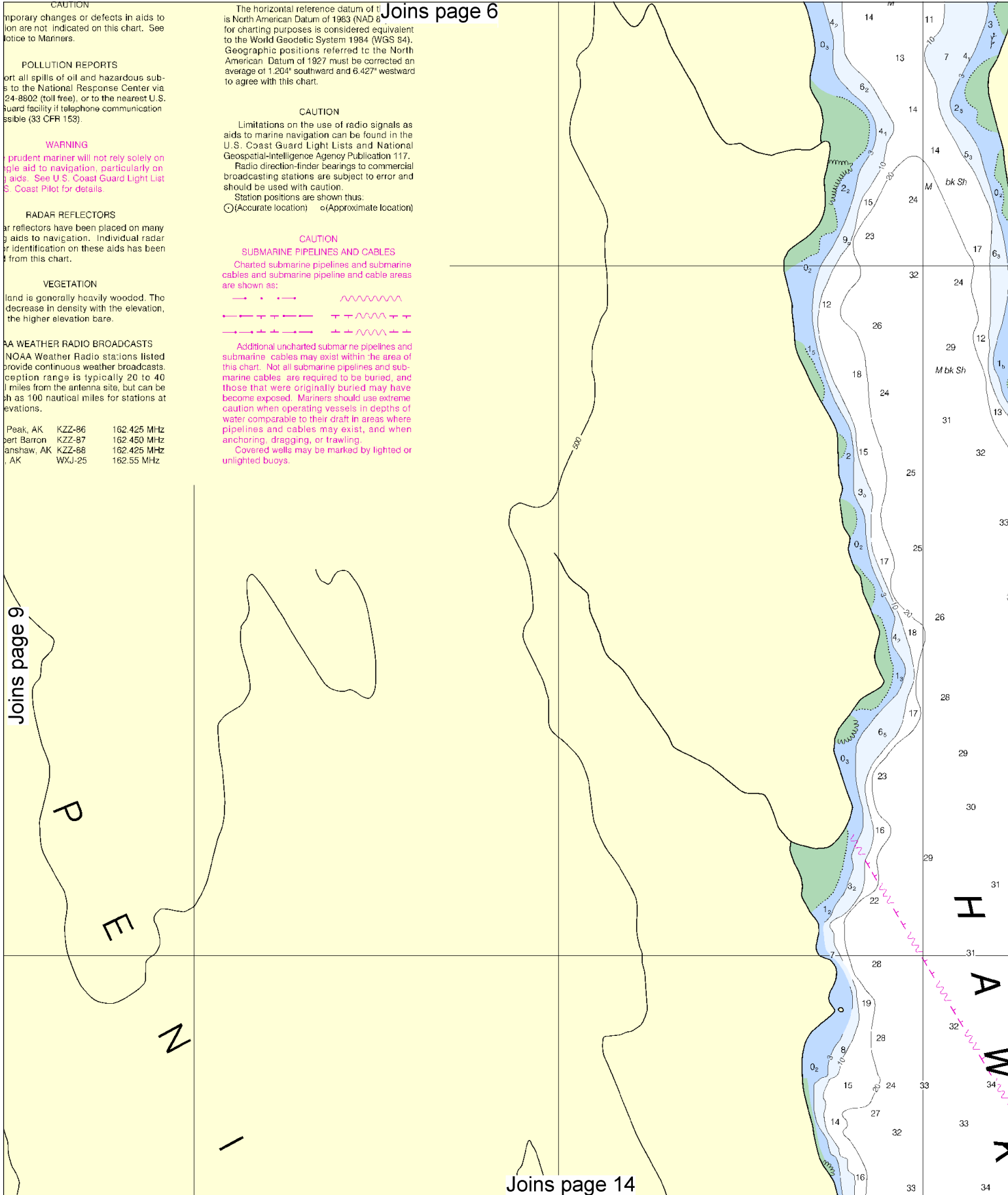
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Covered wells may be marked by lighted or unlighted buoys.



Joins page 9

Joins page 14

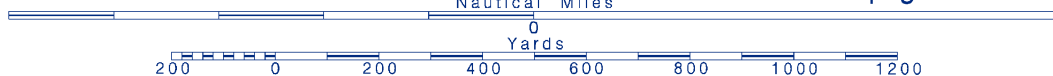
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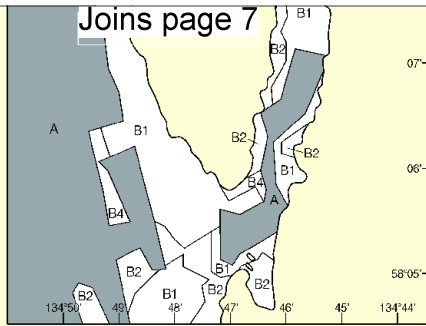
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~~SCALE 1:10,000~~
Nautical Miles

See Note on page 5.



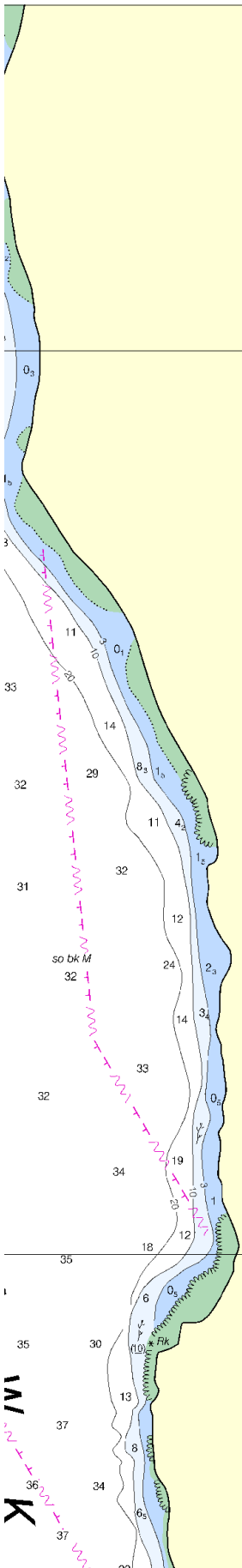
Joins page 7



SOURCE DIAGRAM

The outlined areas represent the limits of the most recent hydrographic survey information that has been evaluated for charting. Surveys have been banded in this diagram by date and type of survey. Channels maintained by the U.S. Army Corps of Engineers are periodically resurveyed and are not shown on this diagram. Refer to Chapter 1, *United States Coast Pilot*.

09'



VAR 23°15' E (2005)

ANNUAL DECREASE 1'

08'

Joins page 15

Joins page 8

CONTINUED ON CHART 17316

07'

06'

H
A
M

MAGNETIC
VAR 23°00' E (2009)

ANNUAL DECREASE 19'

Joins page 16

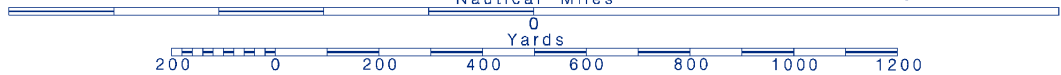
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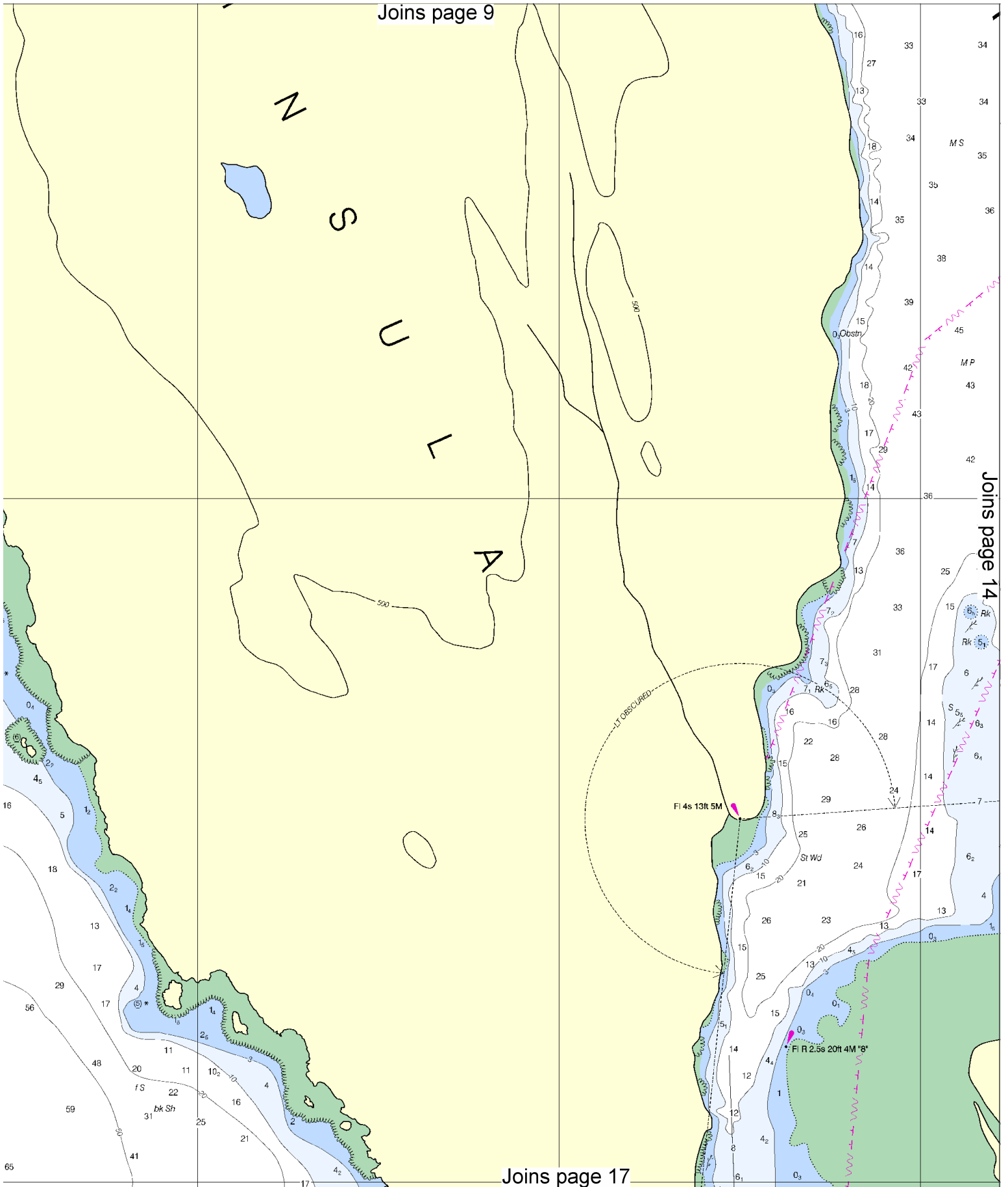
Printed at reduced scale.

SCALE 1:10,000

See Note on page 5.



Joins page 9



Joins page 14

Joins page 17

Joins page 10

Joins page 13

Joins page 18

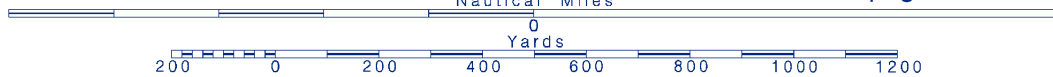
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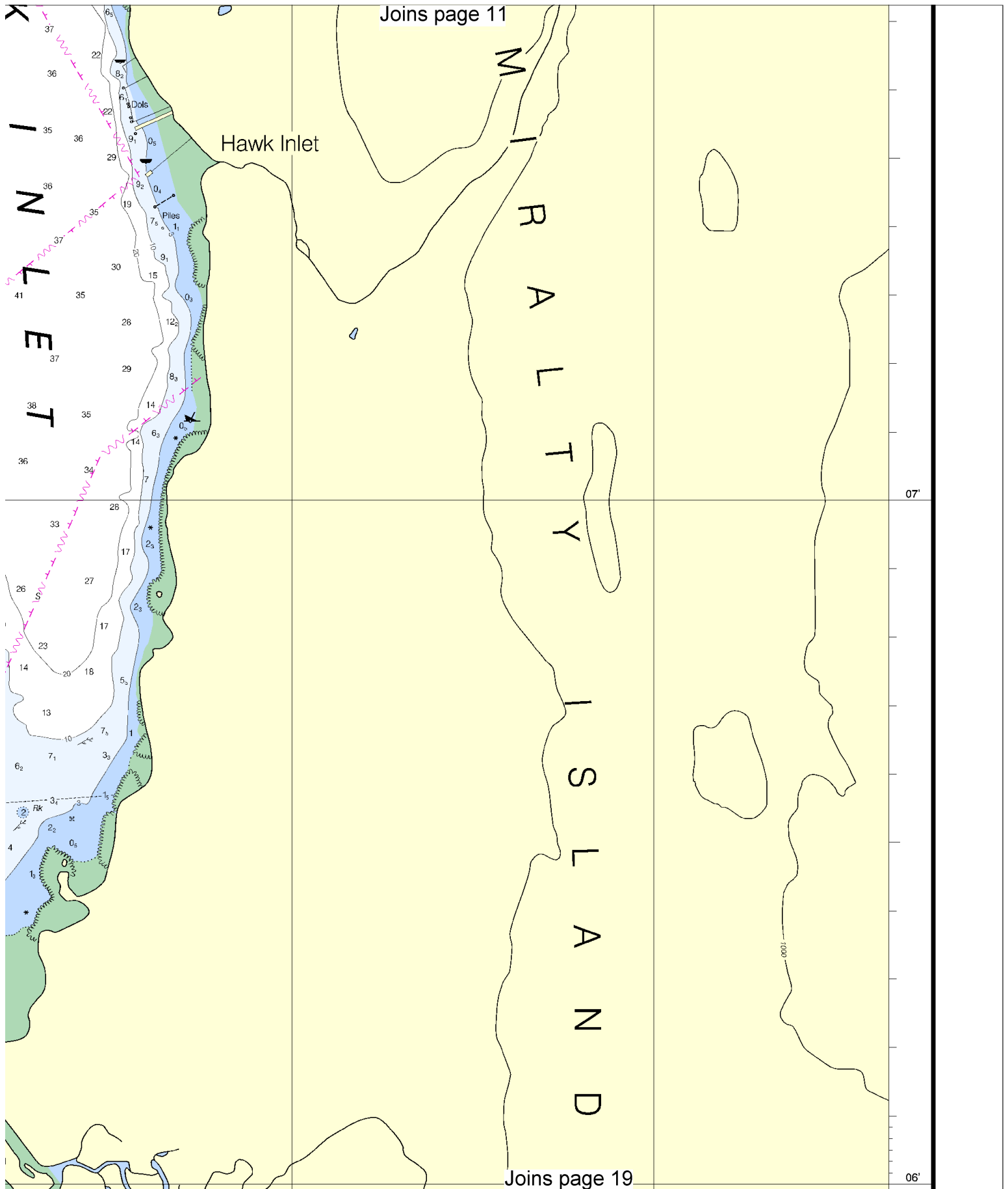


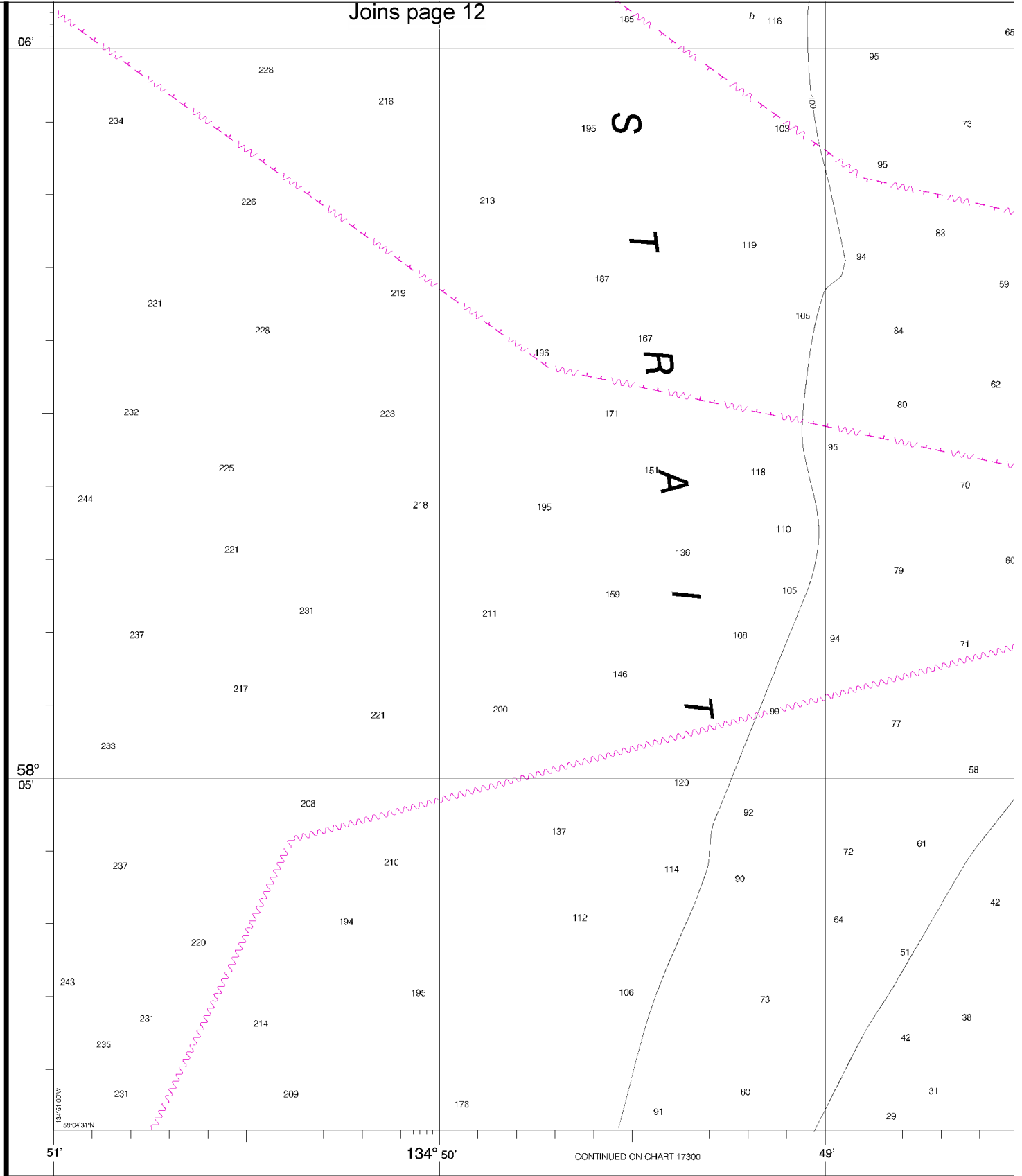
Printed at reduced scale.

SCALE 1:10,000

See Note on page 5.







2nd Ed., Nov. / 05 ■ Corrected through NM Nov. 12/05
Corrected through LNM Nov. 01/05

17312

CAUTION

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SOUNDINGS IN F.

(FATHOMS AND FEET TO 11 F)

(FATHOMS AND FEET TO 11 F)

CONTINUED ON CHART 17300

Printed at reduced scale.

~~SCALE 1:10,000~~
Nautical Miles

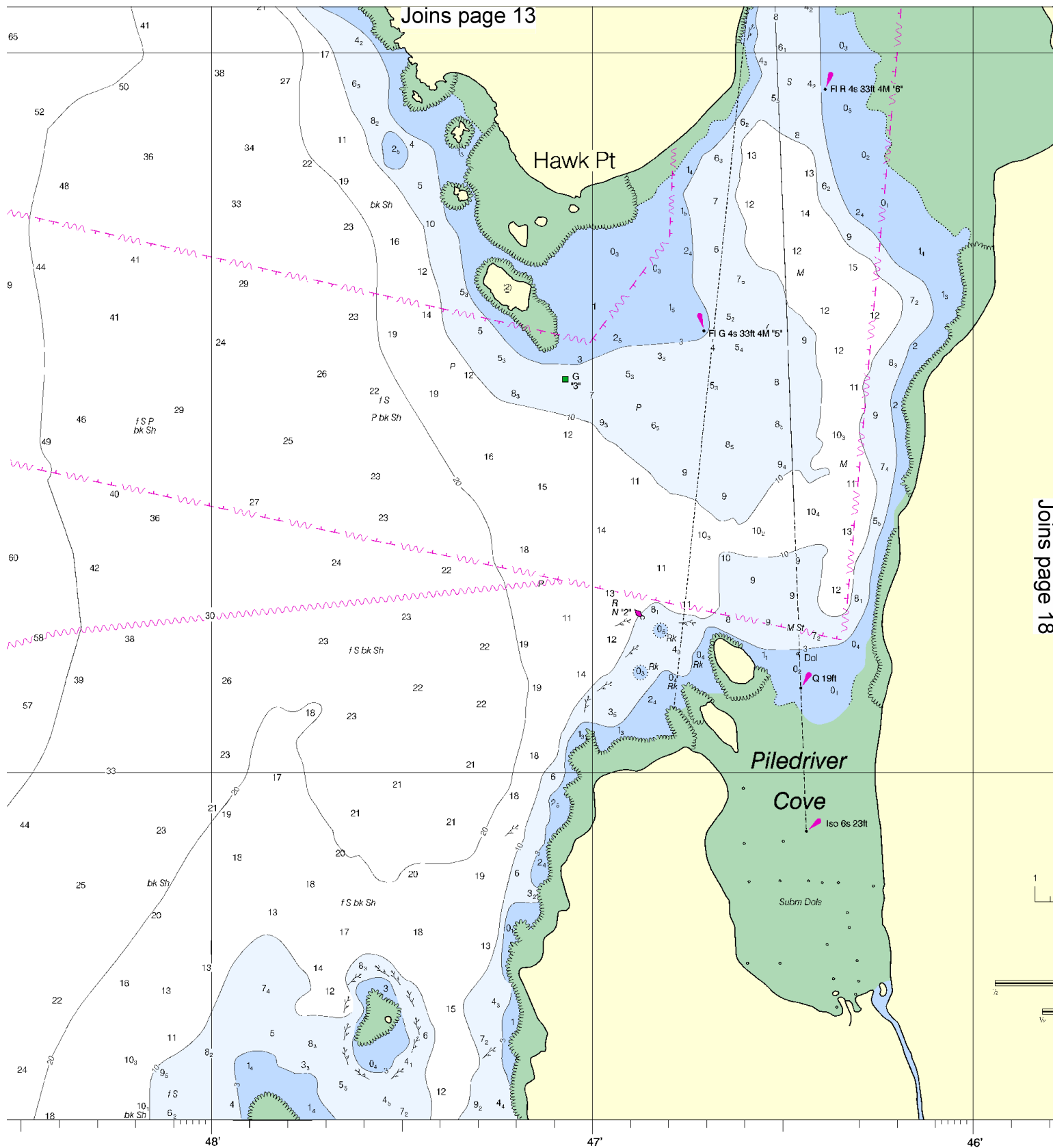
See Note on page 5.

CALL 1-800-
Nautical Miles

Yar

16





FATHOMS
(FATHOMS)

Published at Washington, D.C.
U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE
COAST SURVEY

FATHOMS	1	2
FEET	6	12
METERS	1	2

Joins page 14

Hawk Pt

Piledriver Cove

Joins page 17

Subm Dots

Q 19ft

M St

R N 12

G 3

Dal

Joins page 17

FATHOMS

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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
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COAST SURVEY

FATHOMS	1	2
FEET	6	12
METERS		

18

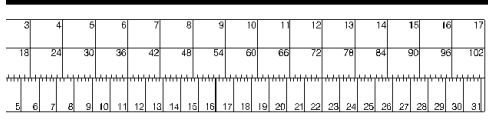
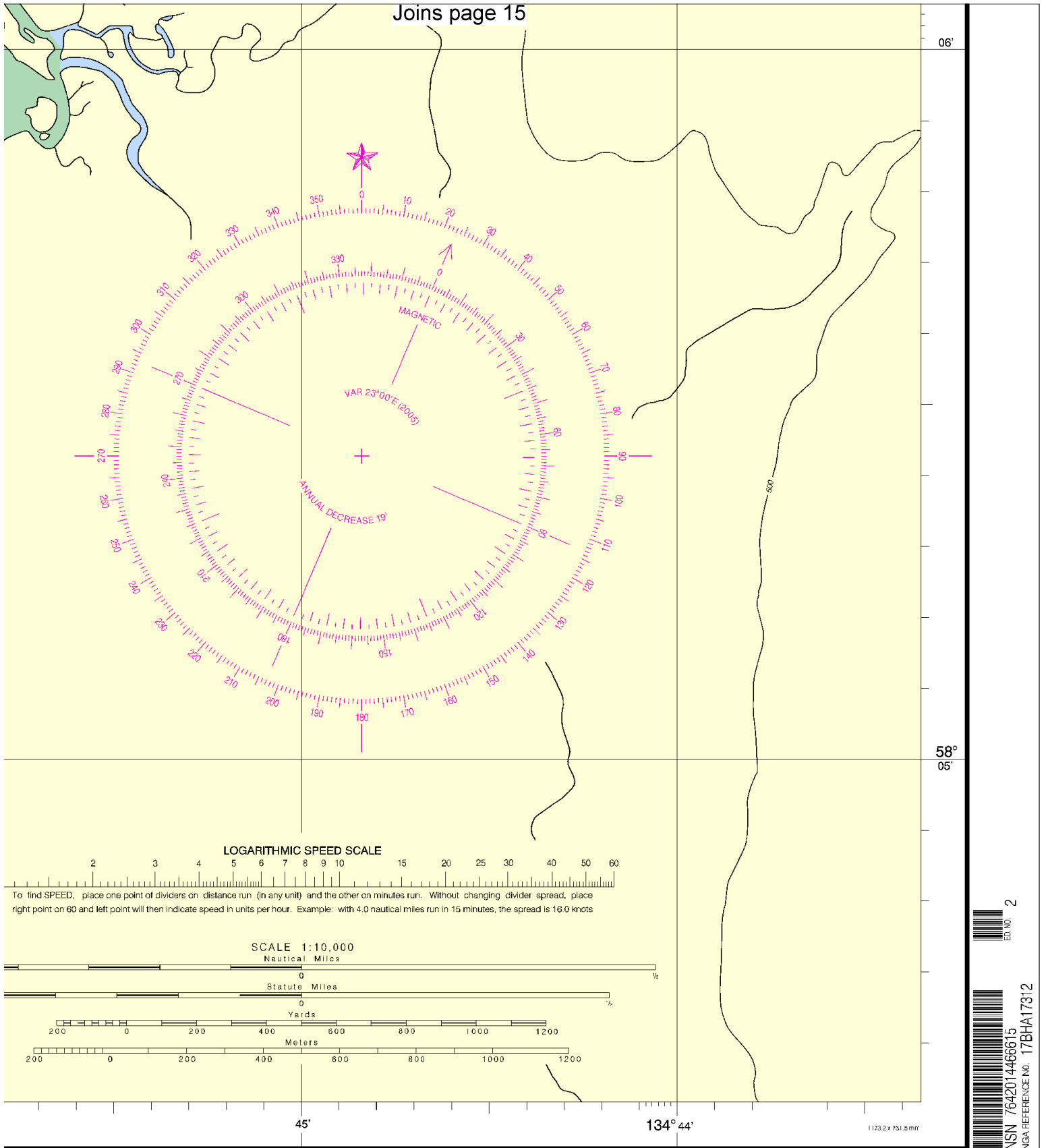


Printed at reduced scale.

~~SCALE 1:10,000~~
Nautical Miles

See Note on page 5.

0
Yards



Hawk Inlet, Chatham Strait
SOUNDINGS IN FATHOMS - SCALE 1:10,000

17312

EMERGENCY INFORMATION

VHF Marine Radio channels for use on the waterways:

Channel 6 – Inter-ship safety communications.

Channel 9 – Communications between boats and ship-to-coast.

Channel 13 – Navigation purposes at bridges, locks, and harbors.

Channel 16 – Emergency, distress and safety calls to Coast Guard and others, and to initiate calls to other vessels. Contact the other vessel, agree to another channel, and then switch.

Channel 22A – Calls between the Coast Guard and the public. Severe weather warnings, hazards to navigation and safety warnings are broadcast here.

Channels 68, 69, 71, 72 & 78A – Recreational boat channels.

Distress Call Procedures

1. Make sure radio is on.
2. Select Channel 16.
3. Press/Hold the transmit button.
4. Clearly say: "MAYDAY, MAYDAY, MAYDAY."
5. Also give: Vessel Name and/or Description; Position and/or Location; Nature of Emergency; Number of People on Board.
6. Release transmit button.
7. Wait for 10 seconds – If no response Repeat MAYDAY Call.

HAVE ALL PERSONS PUT ON LIFE JACKETS !!

Mobile Phones – Call 911 for water rescue.

Coast Guard Search & Rescue (Pacific Coord) – 510-437-3700

Coast Guard Search & Rescue (RCC Juneau) – 907-463-2000

NOAA Weather Radio – 162.400 MHz, 162.425 MHz, 162.450 MHz, 162.475 MHz, 162.500 MHz, 162.525 MHz, 162.550 MHz.

Getting and Giving Help – Signal other boaters using visual distress signals (flares, orange flag, lights, arm signals); whistles; horns; and on your VHF radio. You are required by law to help boaters in trouble. Respond to distress signals, but do not endanger yourself.



NOAA CHARTING PUBLICATIONS

Official NOAA Nautical Charts – NOAA surveys and charts the national and territorial waters of the U.S, including the Great Lakes. We produce over 1,000 traditional nautical charts covering 3.4 million square nautical miles. Carriage of official NOAA charts is mandatory on the commercial ships that carry our commerce. They are used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters. NOAA charts are available from official chart agents listed at: www.NauticalCharts.NOAA.gov.

Official Print-on-Demand Nautical Charts – These full-scale NOAA charts are updated weekly by NOAA for all Notice to Mariner corrections. They have additional information added in the margin to supplement the chart. Print-on-Demand charts meet all federal chart carriage regulations for charts and updating. Produced under a public/private partnership between NOAA and OceanGrafix, LLC, suppliers of these premium charts are listed at www.OceanGrafix.com.

Official Electronic Navigational Charts (NOAA ENC[®]) – ENCs are digital files of each chart's features and their attributes for use in computer-based navigation systems. ENCs comply with standards of the International Hydrographic Organization. ENCs and their updates are available for free from NOAA at www.NauticalCharts.NOAA.gov.

Official Raster Navigational Charts (NOAA RNC[™]) – RNCs are geo-referenced digital pictures of NOAA's charts that are suitable for use in computer-based navigation systems. RNCs comply with standards of the International Hydrographic Organization. RNCs and their updates are available for free from NOAA at www.NauticalCharts.NOAA.gov.

Official BookletCharts[™] – BookletCharts[™] are reduced scale NOAA charts organized in page-sized pieces. The "Home Edition" can be downloaded from NOAA for free and printed. The Internet address is www.NauticalCharts.gov/bookletcharts.

Official PocketCharts[™] – PocketCharts[™] are for beginning recreational boaters to use for planning and locating, but not for real navigation. Measuring a convenient 13" by 19", they have a 1/3 scale chart on one side, and safety, boating, and educational information on the reverse. They can be purchased at retail outlets and on the Internet.

Official U.S. Coast Pilot[®] – The Coast Pilots are 9 text volumes containing information important to navigators such as channel descriptions, port facilities, anchorages, bridge and cable clearances, currents, prominent features, weather, dangers, and Federal Regulations. They supplement the charts and are available from NOAA chart agents or may be downloaded for free at www.NauticalCharts.NOAA.gov.

Official On-Line Chart Viewer – All NOAA nautical charts are viewable here on-line using any Internet browser. Each chart is up-to-date with the most recent Notices to Mariners. Use these on-line charts as a ready reference or planning tool. The Internet address is www.NauticalCharts.gov/viewer.

Official Nautical Chart Catalogs – Large format, regional catalogs are available for free from official chart agents. Page size, state catalogs are posted on the Internet and can be printed at home for free. Go to <http://NauticalCharts.NOAA.gov/mcd/ccatalogs.htm>.

Internet Sites: www.NauticalCharts.NOAA.gov, www.NOAA.gov, www.TidesandCurrents.NOAA.gov, www.NOS.NOAA.gov.